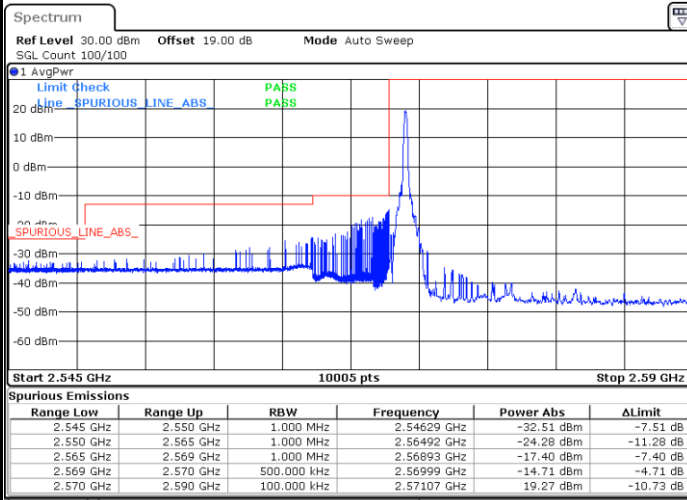




LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



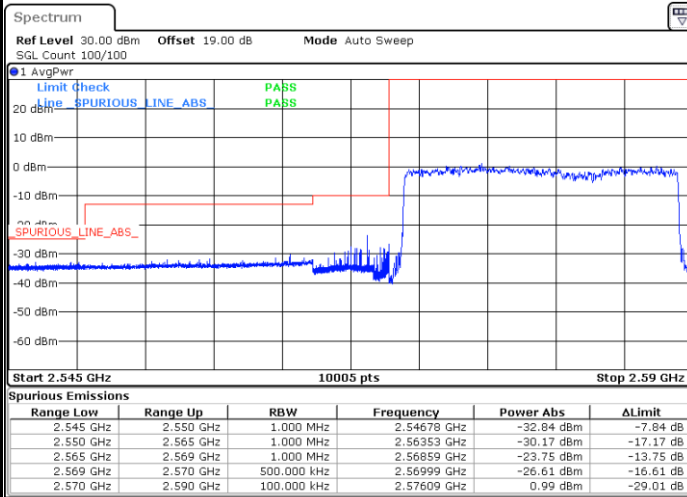
Date: 30.NOV.2019 23:16:44

Highest Band Edge / 1 RB



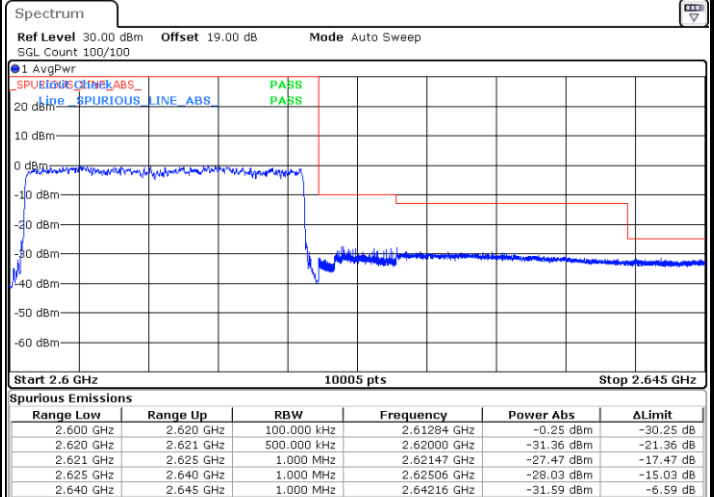
Date: 30.NOV.2019 23:22:47

Lowest Band Edge / Full RB



Date: 30.NOV.2019 23:18:45

Highest Band Edge / Full RB

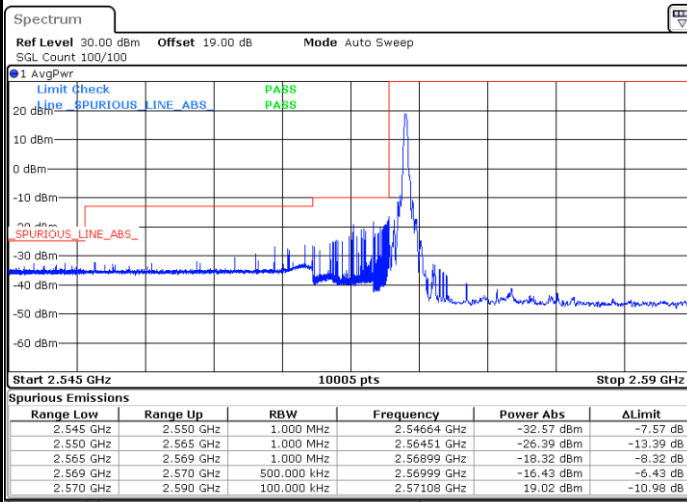


Date: 30.NOV.2019 23:20:46



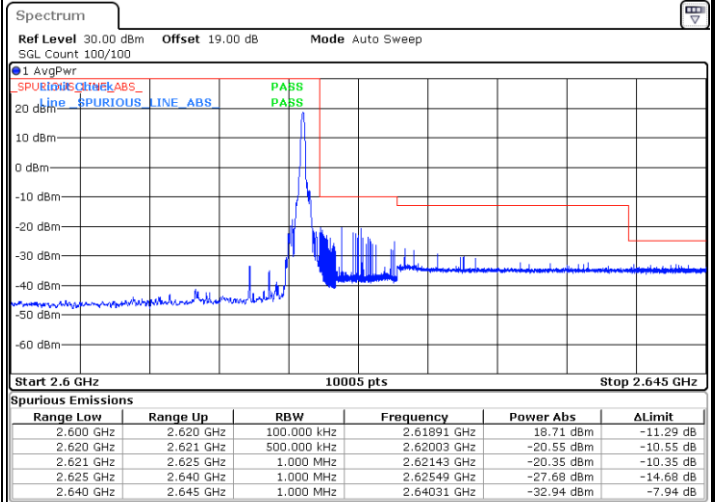
LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



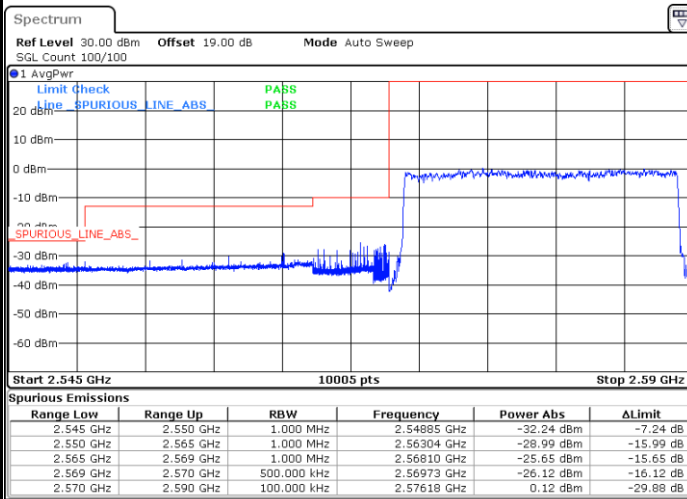
Date: 30.NOV.2019 23:23:48

Highest Band Edge / 1 RB



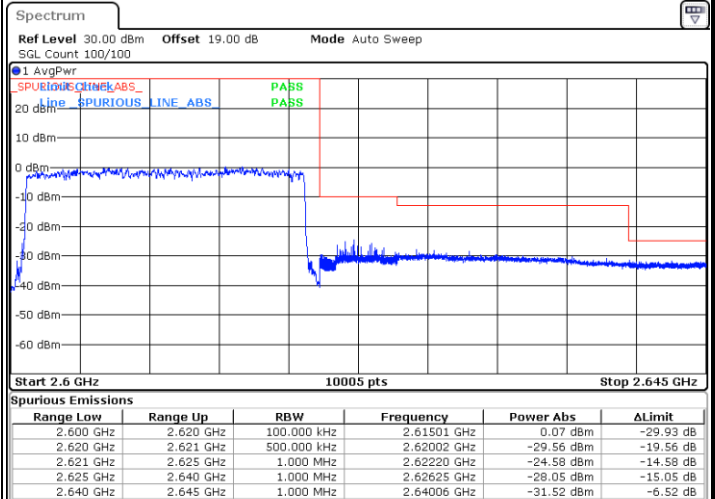
Date: 30.NOV.2019 23:26:49

Lowest Band Edge / Full RB



Date: 30.NOV.2019 23:24:48

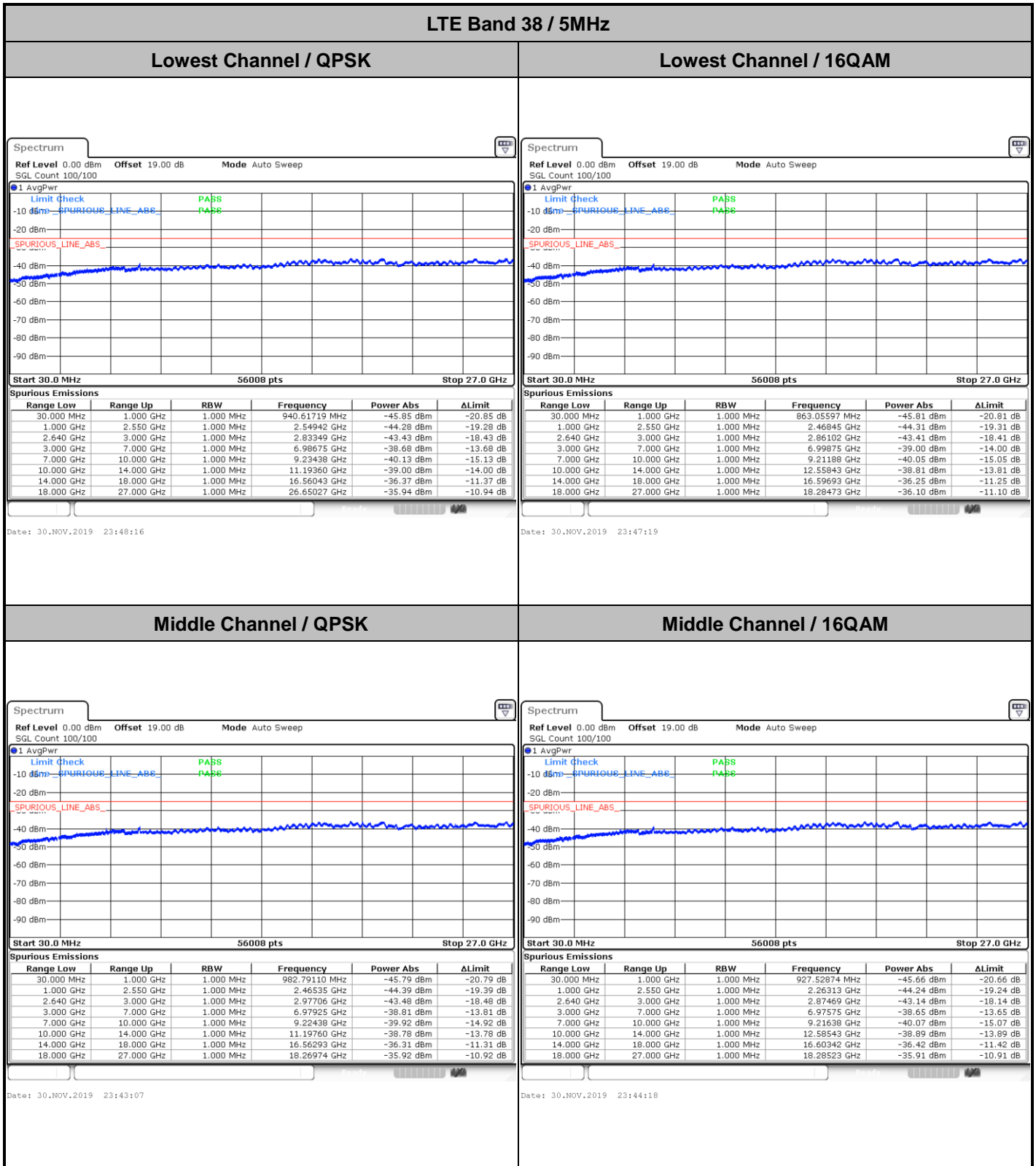
Highest Band Edge / Full RB



Date: 30.NOV.2019 23:25:49



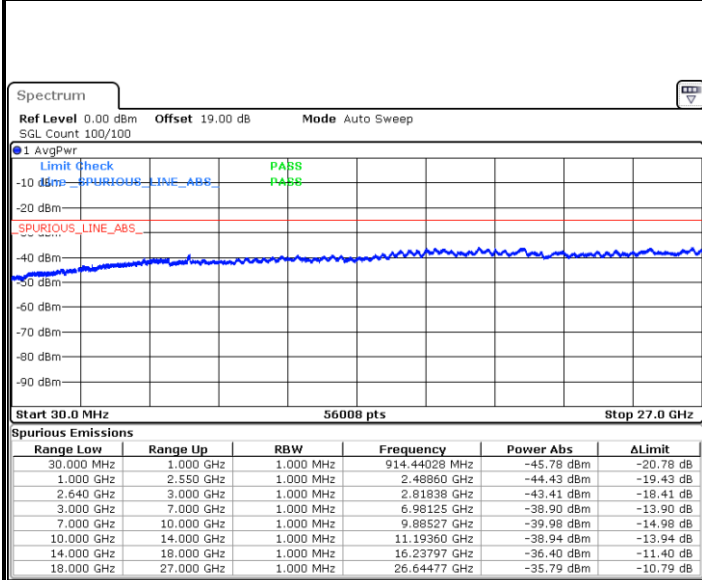
Conducted Spurious Emission





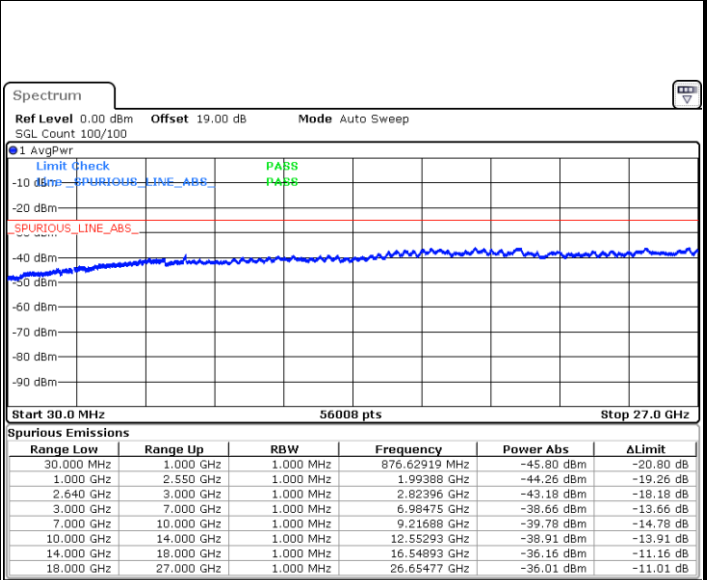
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 30.NOV.2019 23:49:16

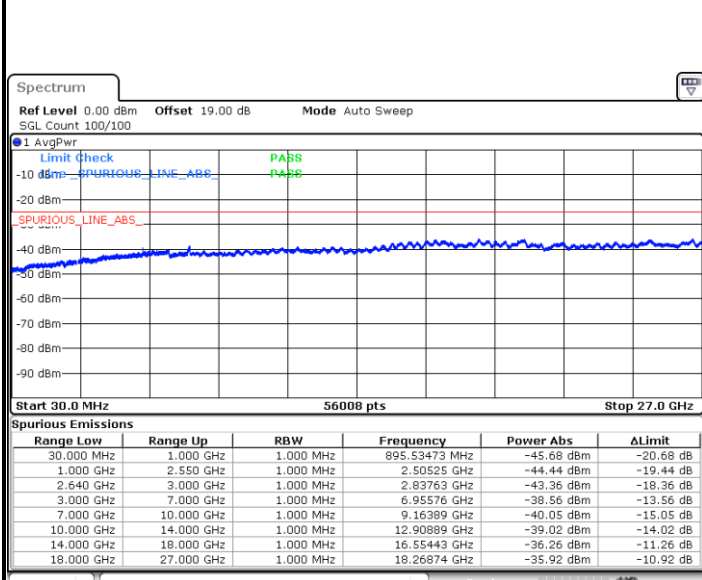
Highest Channel / 16QAM



Date: 30.NOV.2019 23:50:28

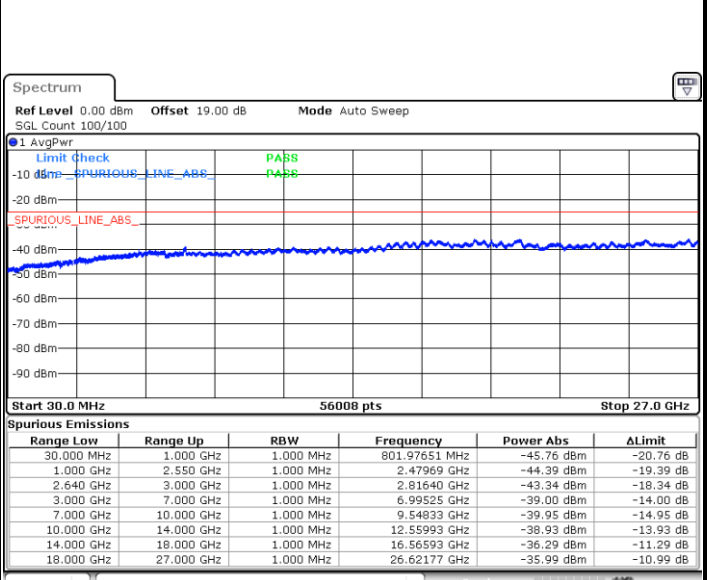
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 30.NOV.2019 23:53:05

Lowest Channel / 16QAM



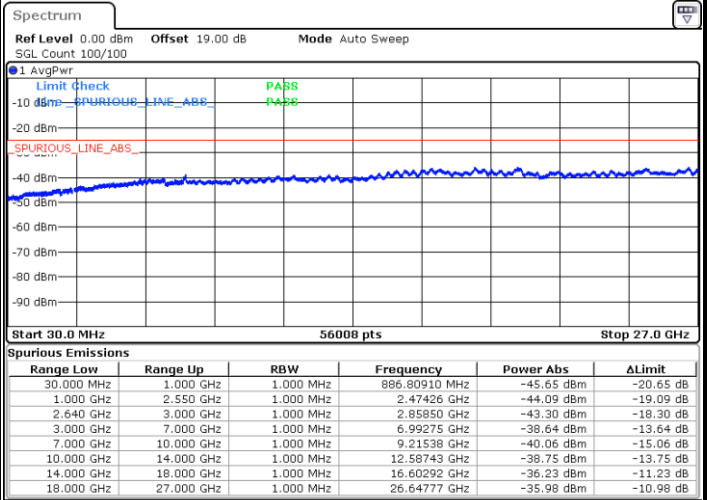
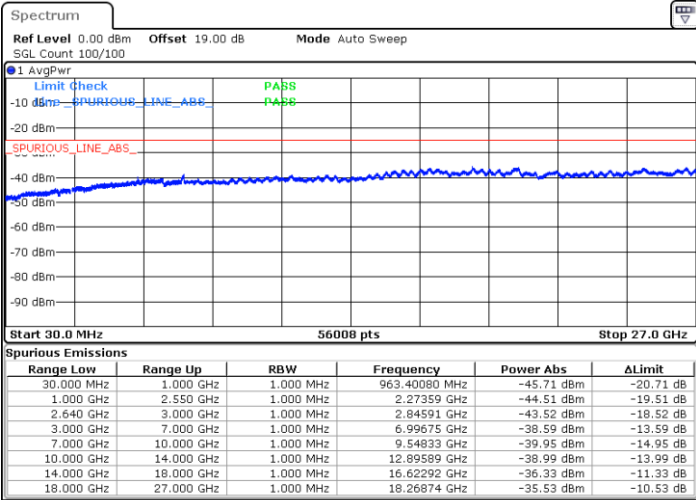
Date: 30.NOV.2019 23:55:24



LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

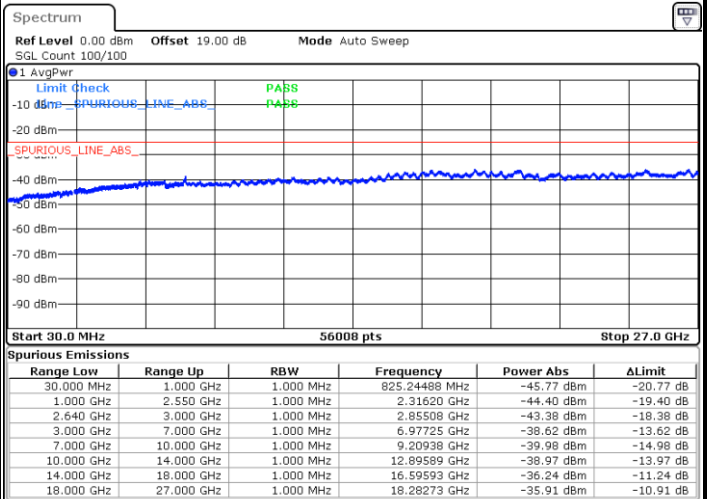
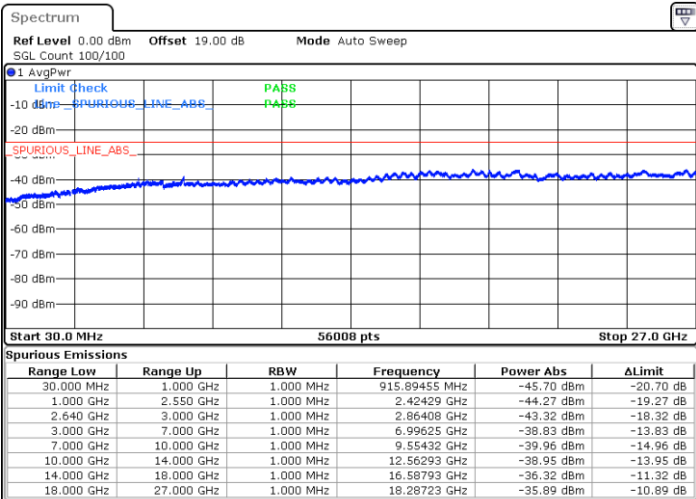


Date: 1.DEC.2019 00:00:43

Date: 1.DEC.2019 00:02:03

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.NOV.2019 23:59:37

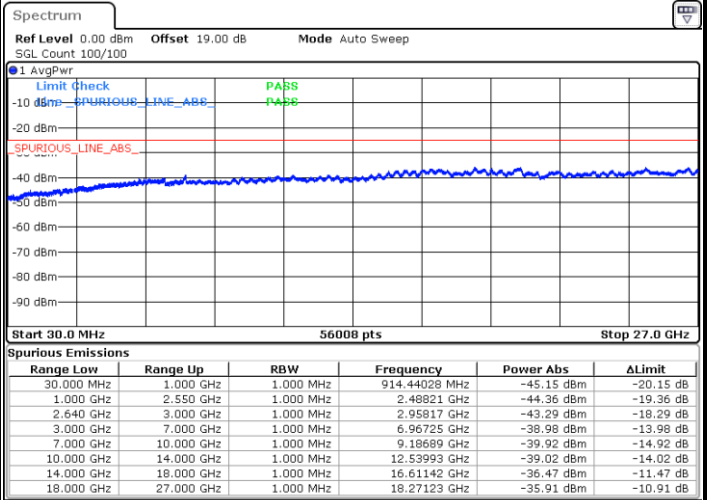
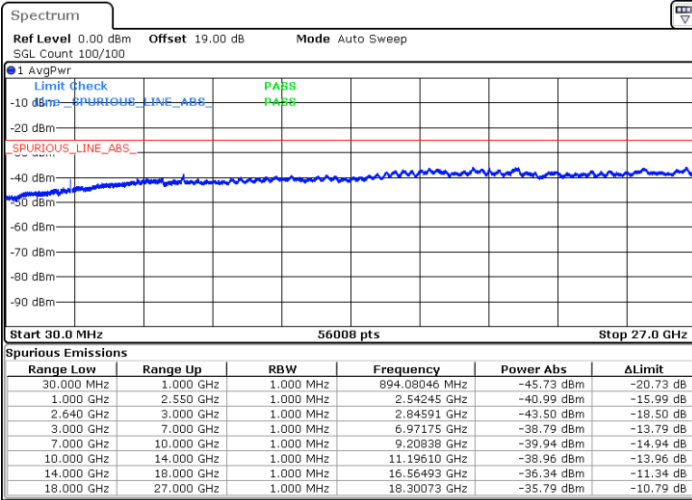
Date: 30.NOV.2019 23:58:27



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

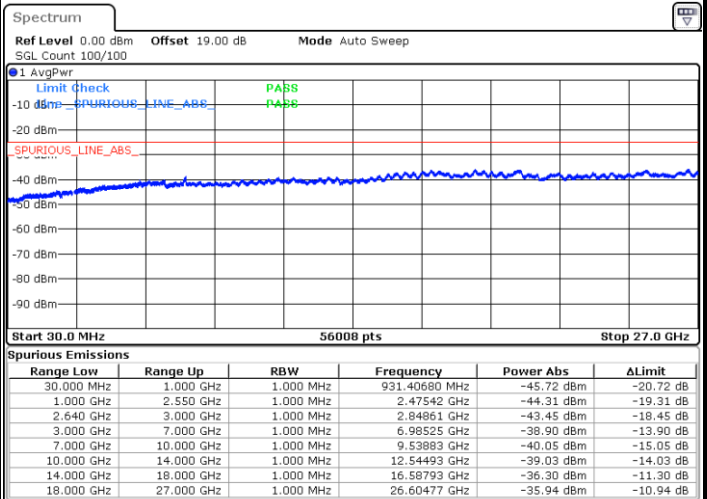
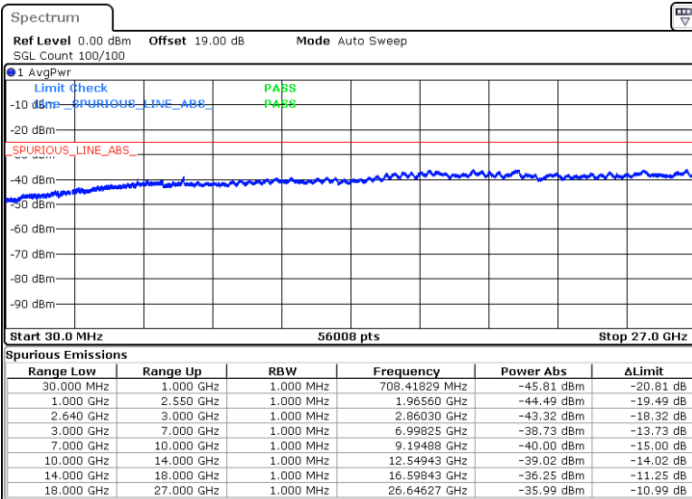


Date: 1.DEC.2019 00:10:11

Date: 1.DEC.2019 00:09:19

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.DEC.2019 00:04:36

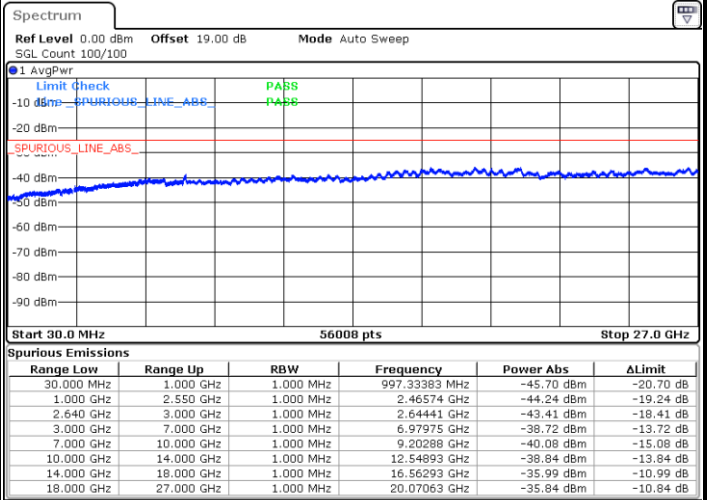
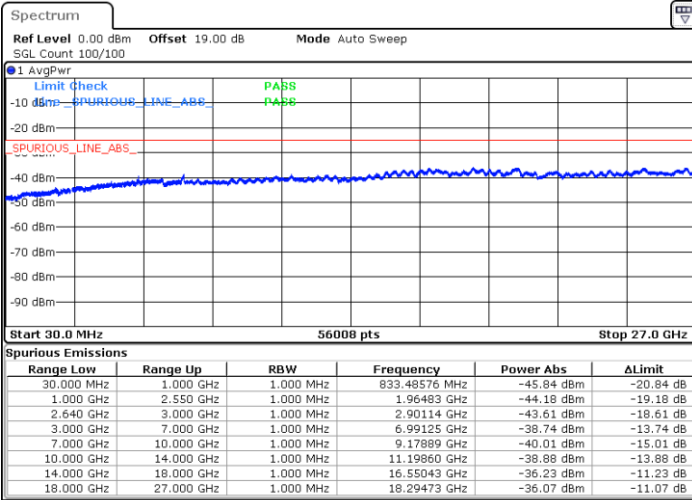
Date: 1.DEC.2019 00:06:01



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



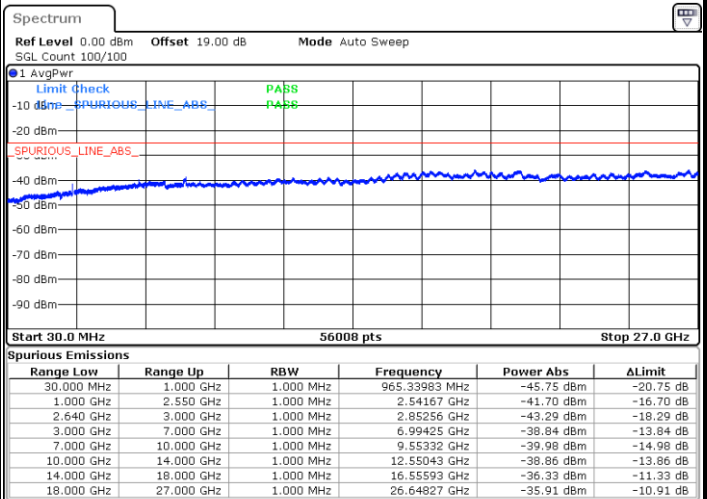
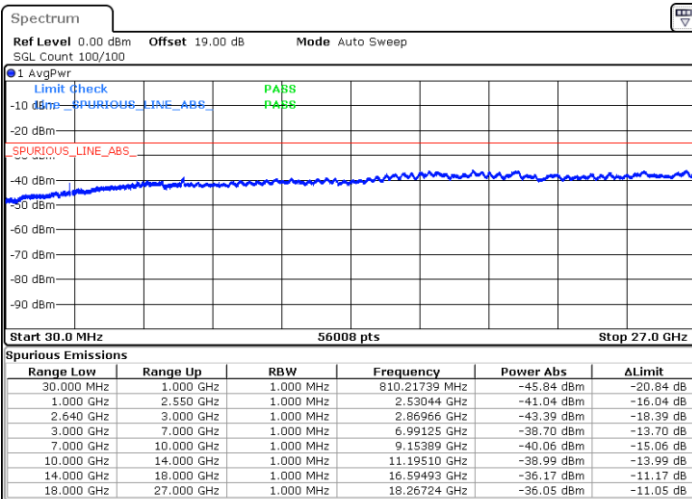
Date: 1.DEC.2019 00:11:26

Date: 1.DEC.2019 00:12:22

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 1.DEC.2019 00:22:14

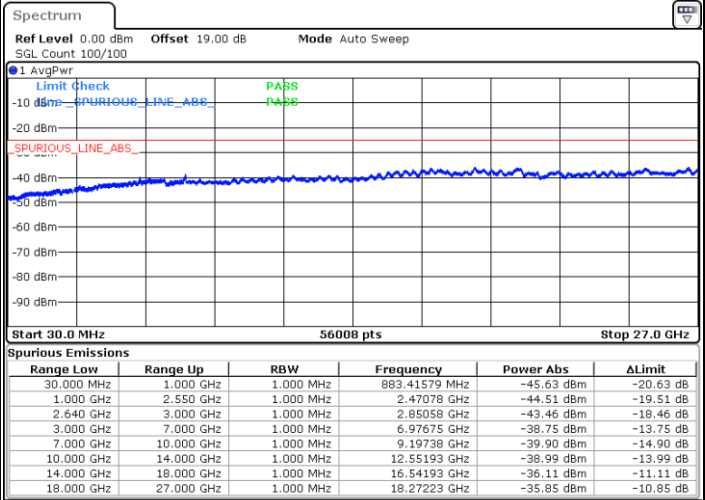
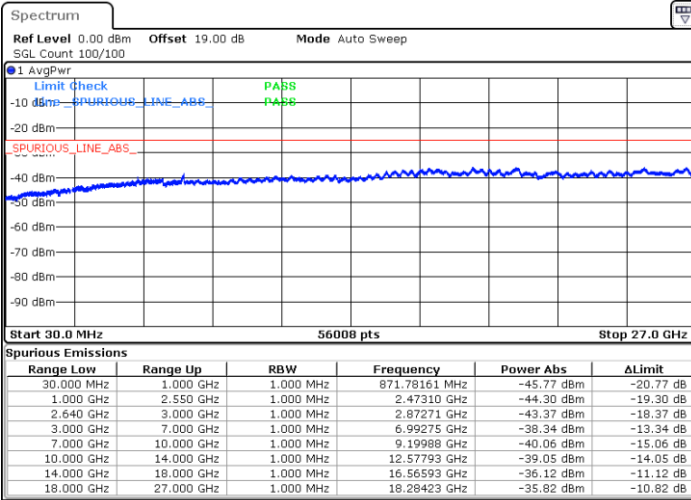
Date: 1.DEC.2019 00:21:12



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

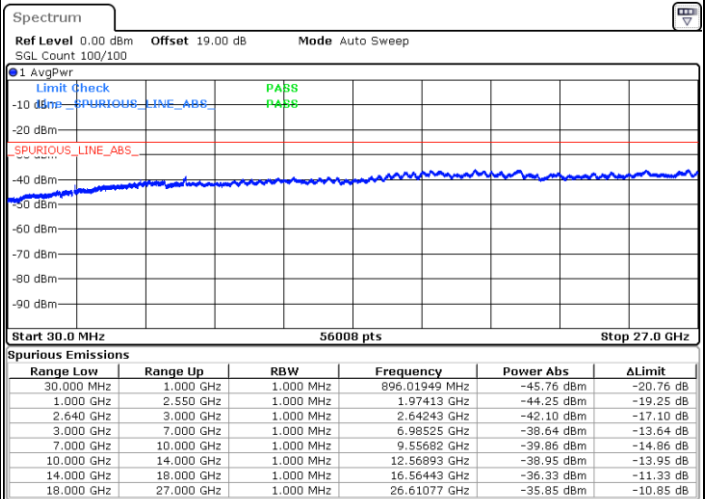
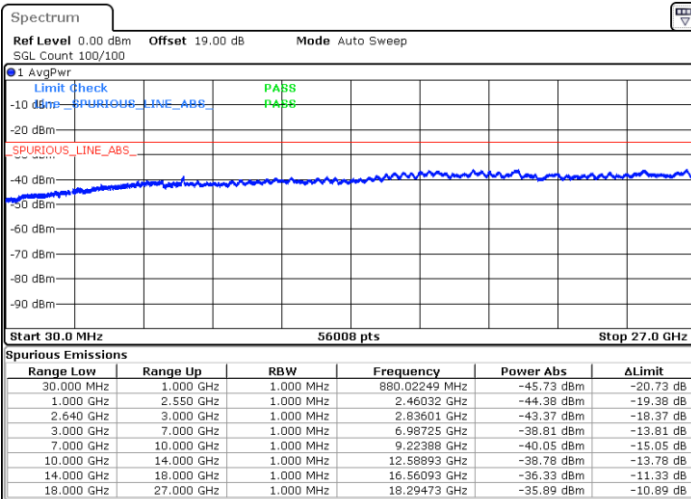


Date: 1.DEC.2019 00:15:01

Date: 1.DEC.2019 00:16:12

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.DEC.2019 00:23:21

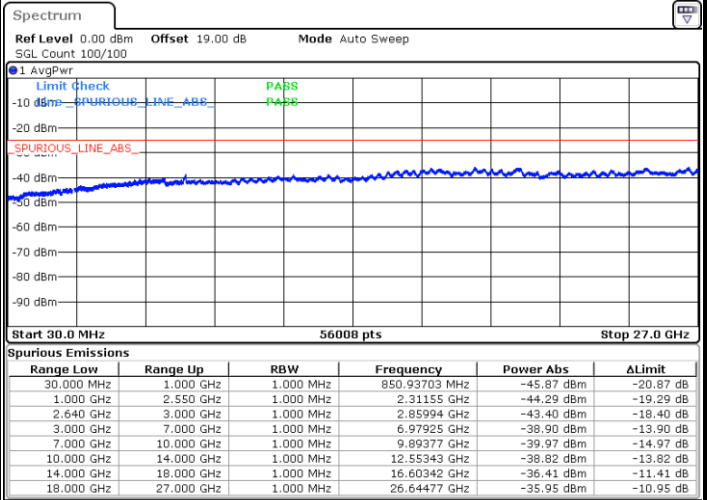
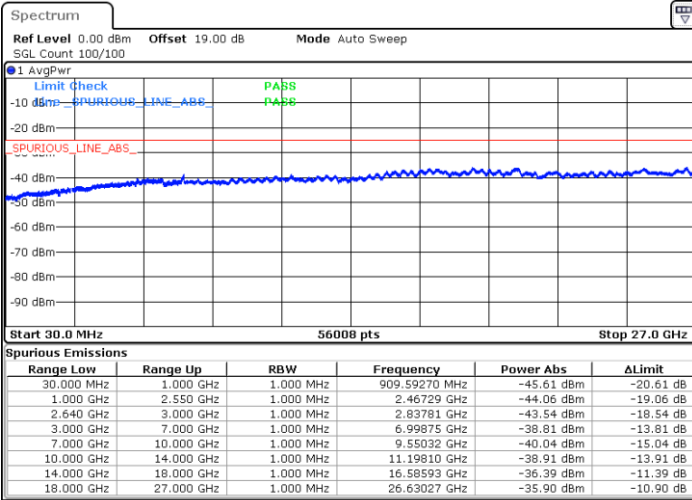
Date: 1.DEC.2019 00:24:35



LTE Band 38 / 5MHz

Lowest Channel / 64QAM

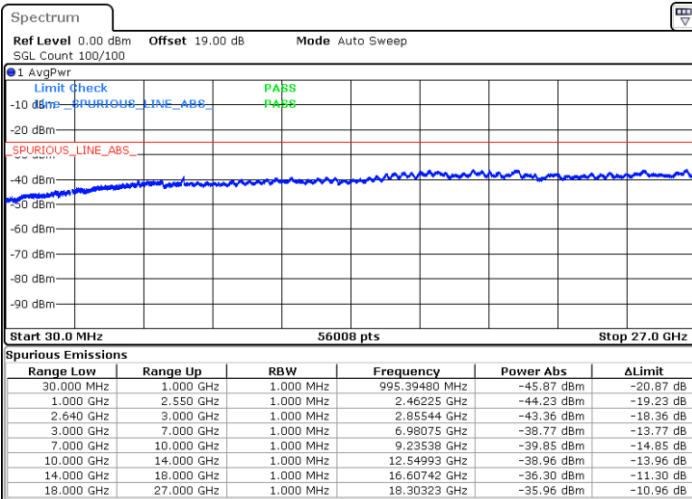
Middle Channel / 64QAM



Date: 30.NOV.2019 23:46:11

Date: 30.NOV.2019 23:45:12

Highest Channel / 64QAM



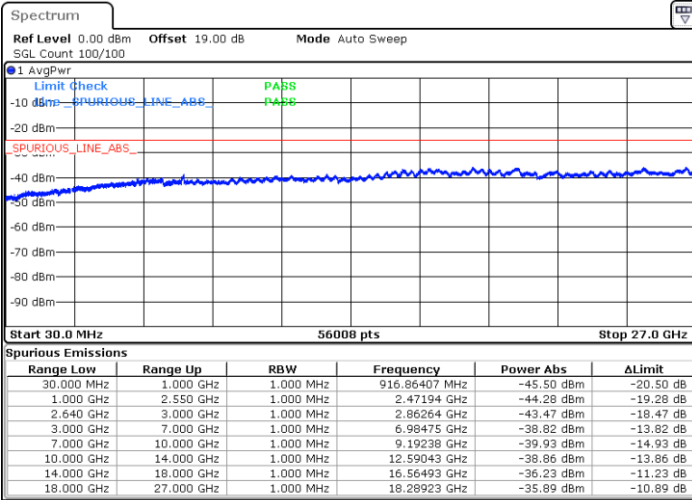
Date: 30.NOV.2019 23:51:59



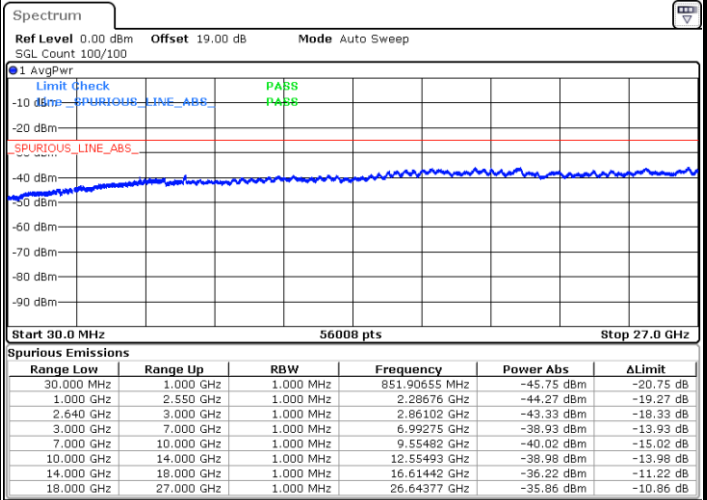
LTE Band 38 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

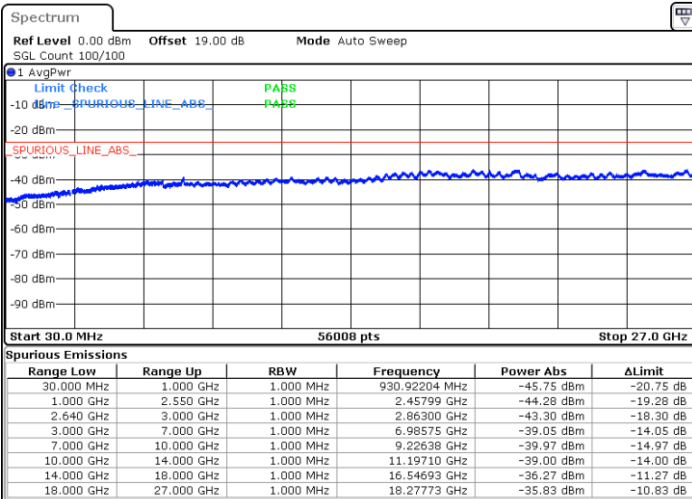


Date: 30.NOV.2019 23:56:20



Date: 1.DEC.2019 00:03:09

Highest Channel / 64QAM



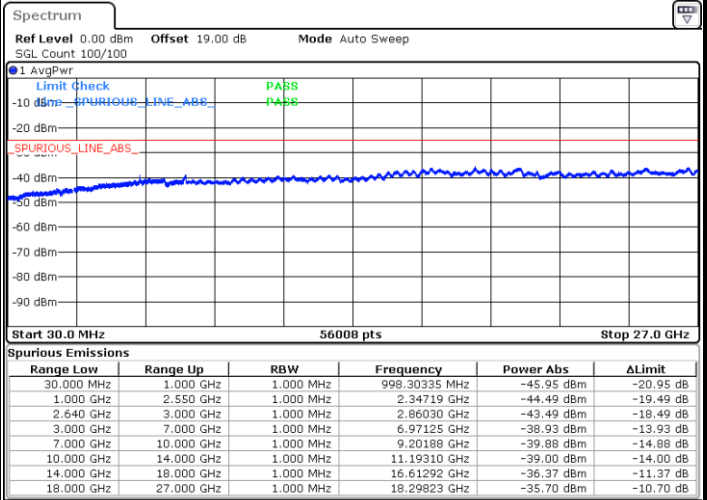
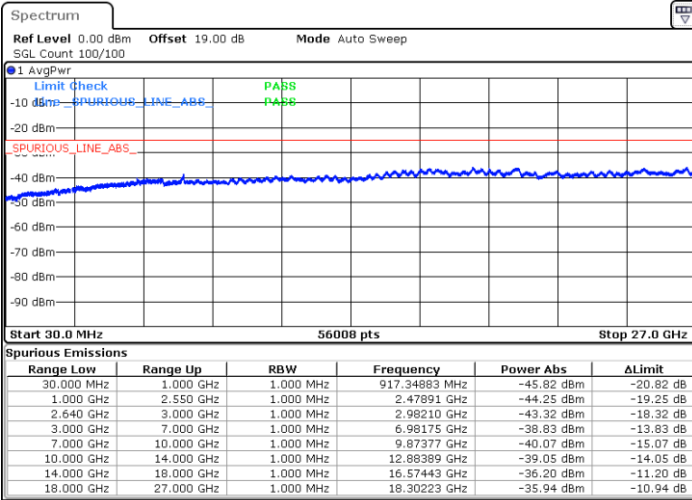
Date: 30.NOV.2019 23:57:29



LTE Band 38 / 15MHz

Lowest Channel / 64QAM

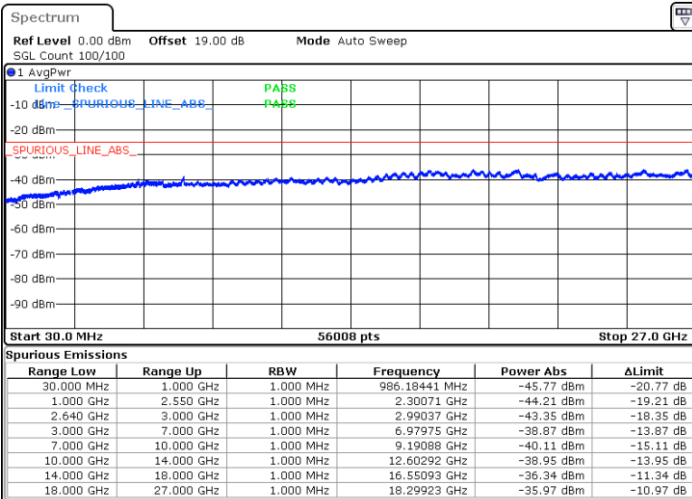
Middle Channel / 64QAM



Date: 1.DEC.2019 00:08:10

Date: 1.DEC.2019 00:07:03

Highest Channel / 64QAM



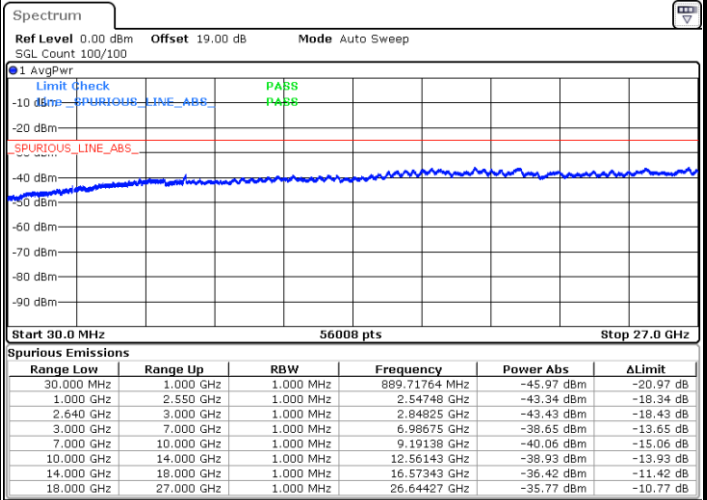
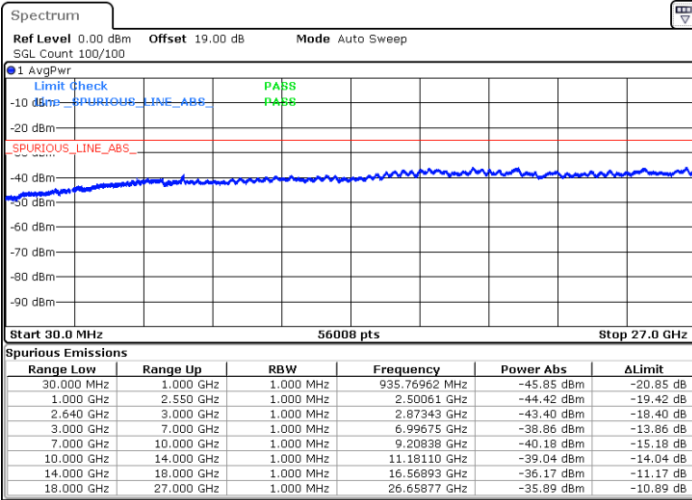
Date: 1.DEC.2019 00:13:27



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

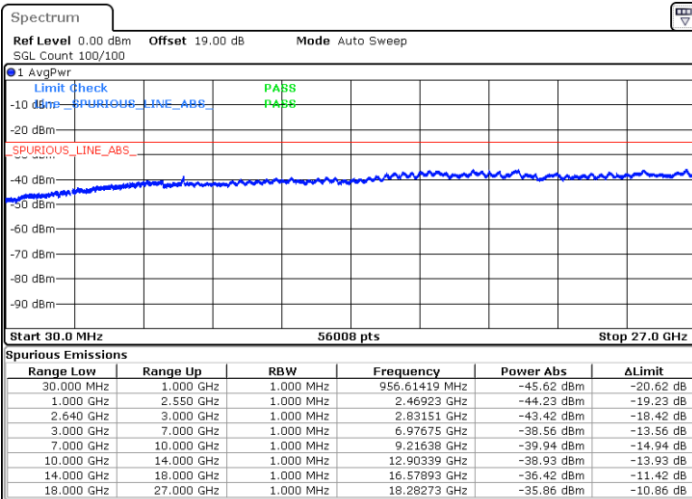
Middle Channel / 64QAM



Date: 1.DEC.2019 00:19:40

Date: 1.DEC.2019 00:18:43

Highest Channel / 64QAM



Date: 1.DEC.2019 00:25:29



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0062	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0057	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0045	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

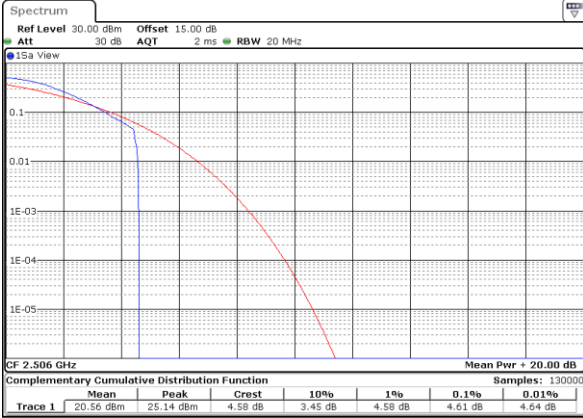
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.61	4.46	4.41	6.99	PASS
Middle CH	5.48	5.04	6.70	6.41	
Highest CH	4.23	4.67	4.84	6.81	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	4.29	6.43	-	-	PASS
Middle CH	5.59	7.30	-	-	
Highest CH	4.52	5.57	-	-	



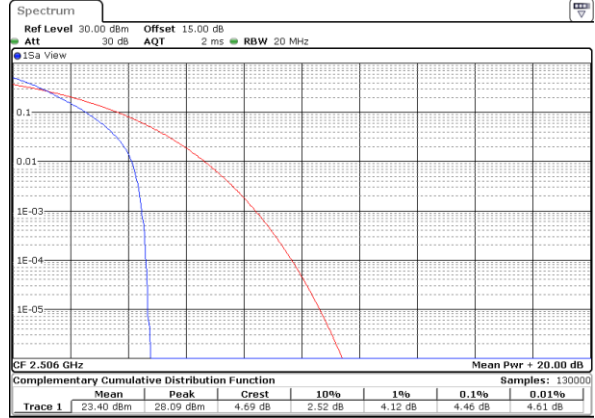
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



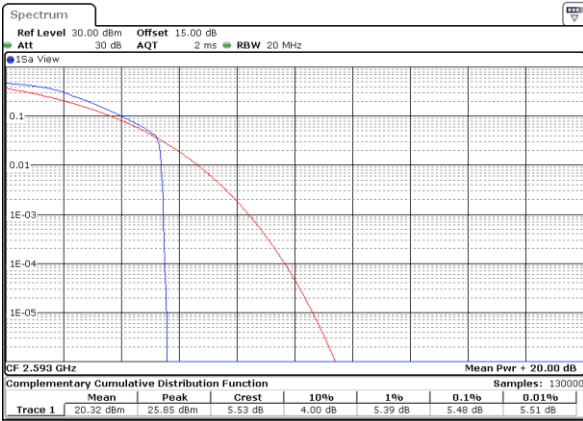
Date: 15_JAN.2020 02:40:50

Lowest Channel / Full RB



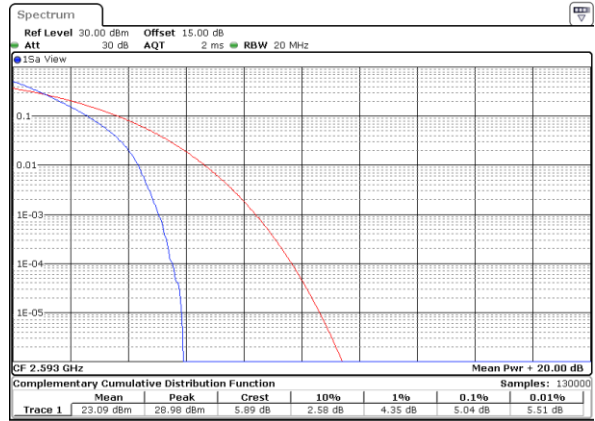
Date: 15_JAN.2020 02:41:02

Middle Channel / 1RB



Date: 15_JAN.2020 02:41:13

Middle Channel / Full RB



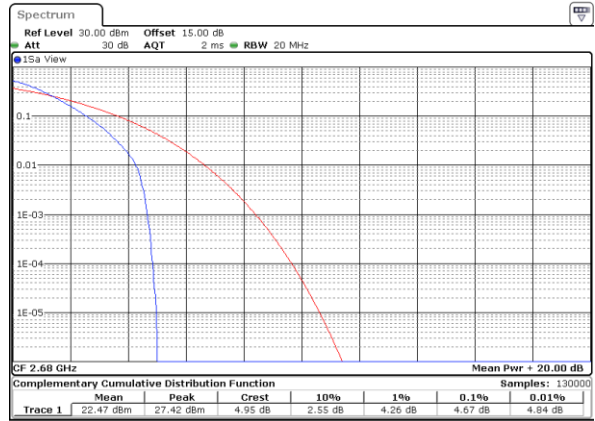
Date: 15_JAN.2020 02:41:25

Highest Channel / 1RB



Date: 15_JAN.2020 02:41:41

Highest Channel / Full RB

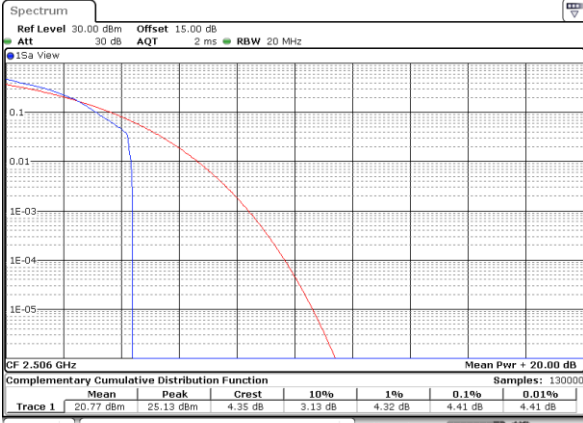


Date: 15_JAN.2020 02:41:58



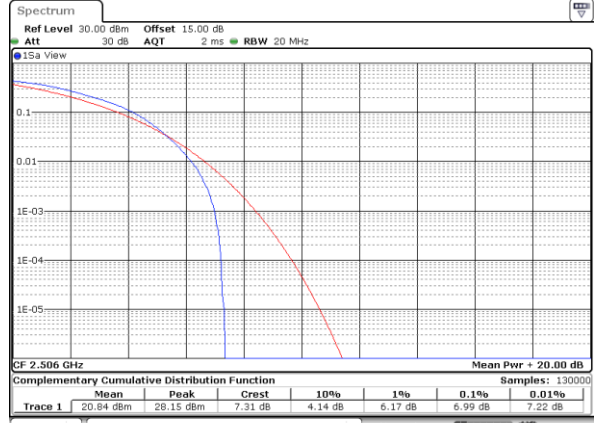
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



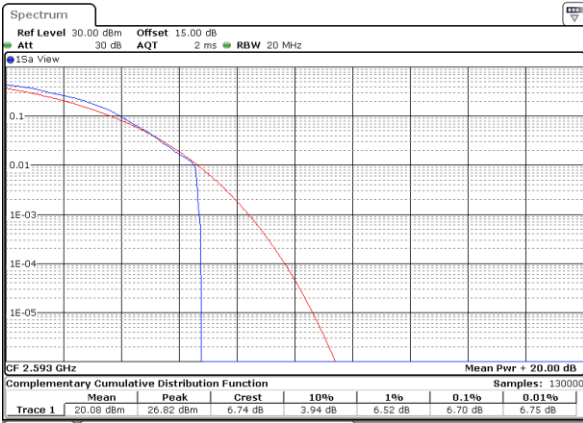
Date: 15_JAN.2020 02:138:21

Lowest Channel / Full RB



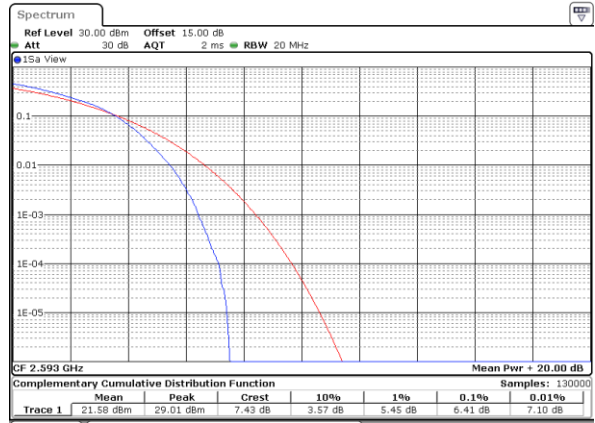
Date: 15_JAN.2020 02:138:37

Middle Channel / 1RB



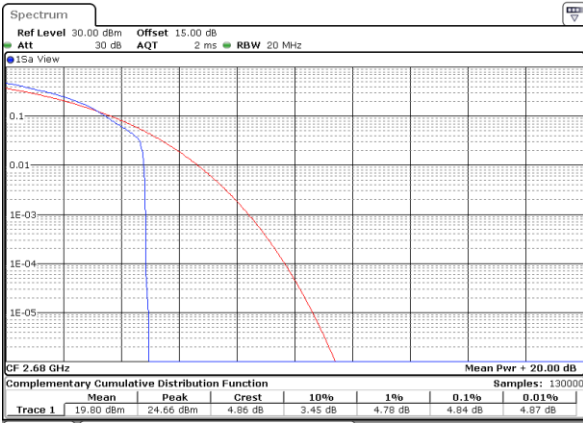
Date: 15_JAN.2020 02:139:12

Middle Channel / Full RB



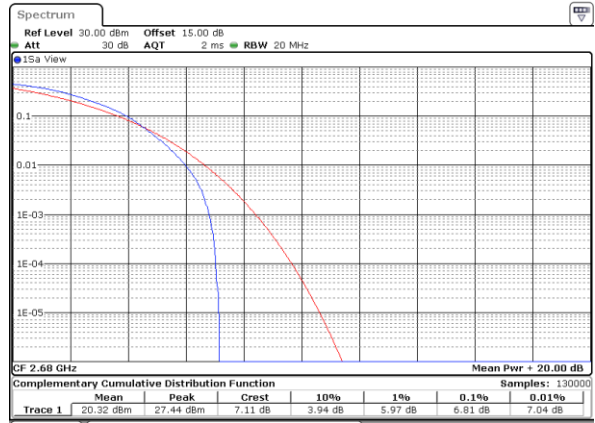
Date: 15_JAN.2020 02:139:34

Highest Channel / 1RB



Date: 15_JAN.2020 02:140:19

Highest Channel / Full RB

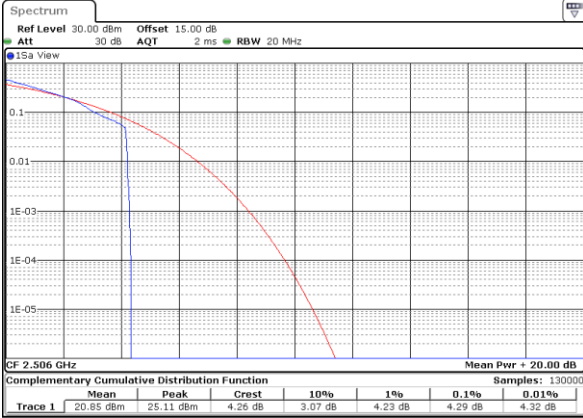


Date: 15_JAN.2020 02:140:39



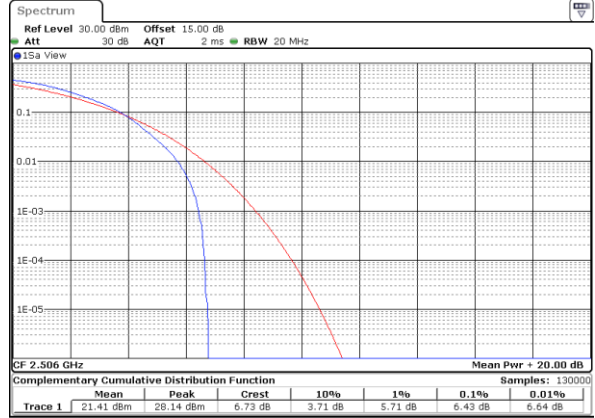
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 15_JAN.2020 02:136:00

Lowest Channel / Full RB



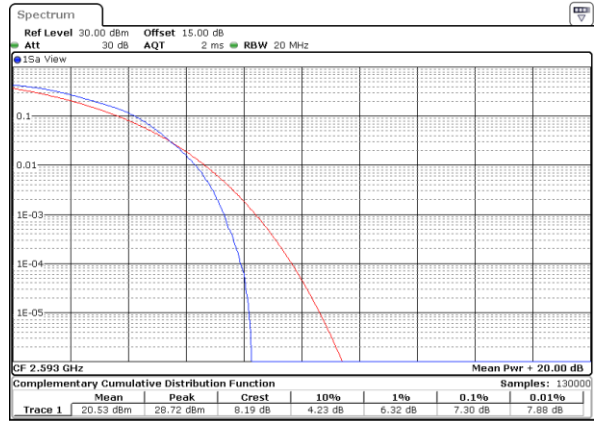
Date: 15_JAN.2020 02:136:18

Middle Channel / 1RB



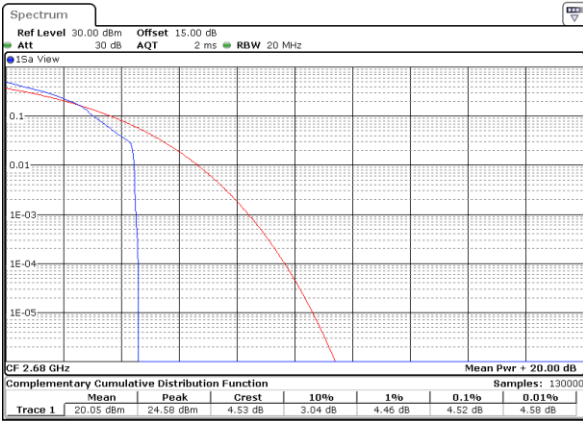
Date: 15_JAN.2020 02:136:00

Middle Channel / Full RB



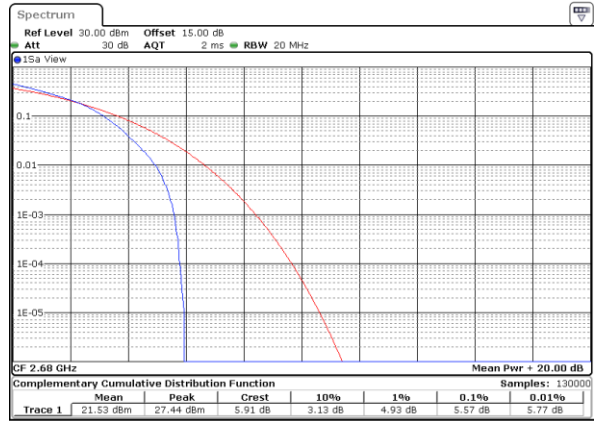
Date: 15_JAN.2020 02:136:41

Highest Channel / 1RB



Date: 15_JAN.2020 02:137:04

Highest Channel / Full RB



Date: 15_JAN.2020 02:137:41



26dB Bandwidth

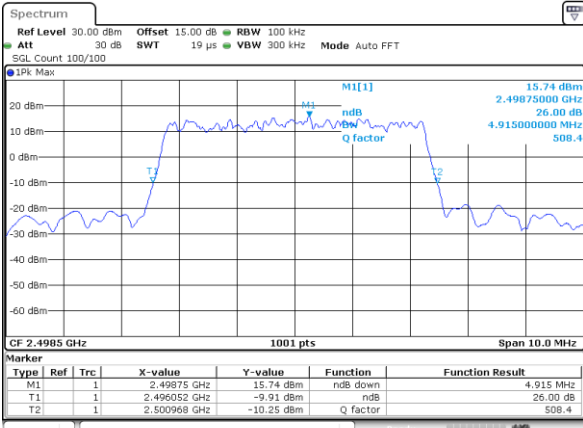
Mode	LTE Band 41 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.92	4.85	9.83	9.69	14.27	14.45	18.86	18.90
Middle CH	4.83	4.88	9.81	9.65	14.15	14.33	18.86	19.18
Highest CH	4.88	4.82	9.73	9.63	14.42	14.15	18.94	18.90

Mode	LTE Band 41 : 26dB BW(MHz)			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.82	9.63	14.15	18.78
Middle CH	4.87	9.77	14.18	19.02
Highest CH	4.90	9.65	14.30	18.78



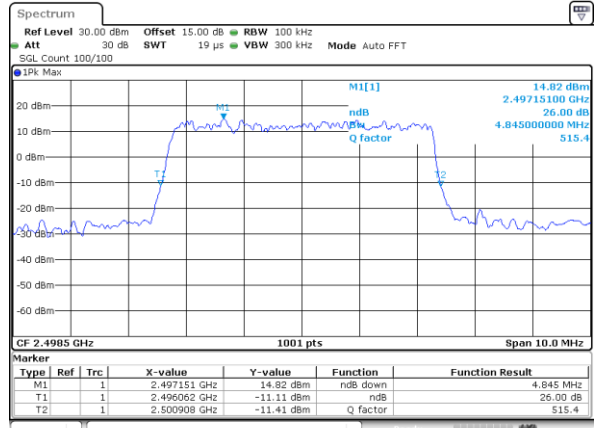
LTE Band 41

Lowest Channel / 5MHz / QPSK



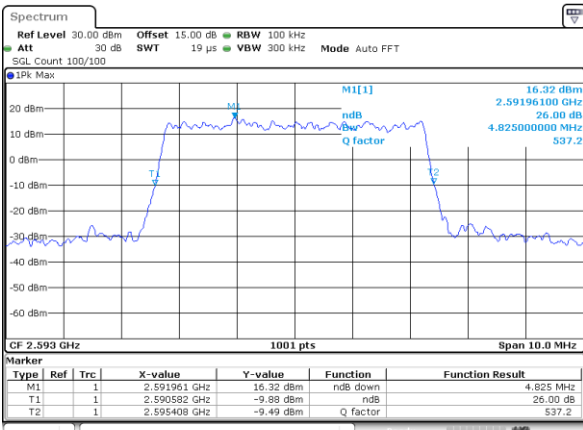
Date: 15_JAN_2020 02:20:27

Lowest Channel / 5MHz / 16QAM



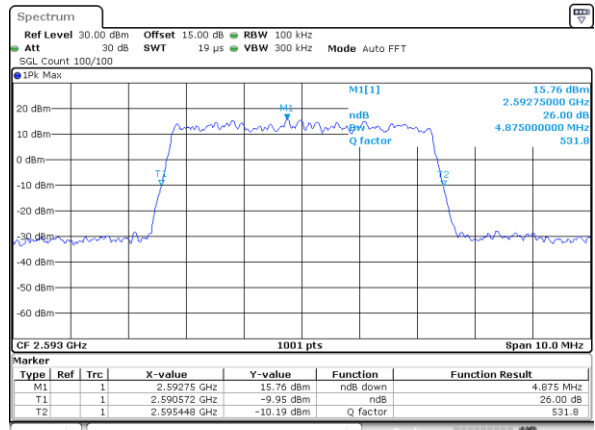
Date: 15_JAN_2020 02:20:38

Middle Channel / 5MHz / QPSK



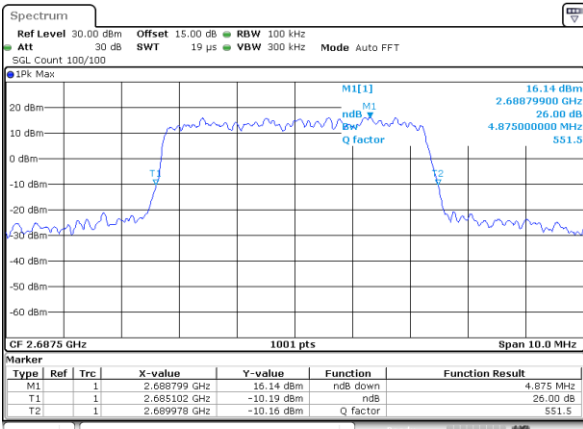
Date: 15_JAN_2020 02:21:11

Middle Channel / 5MHz / 16QAM



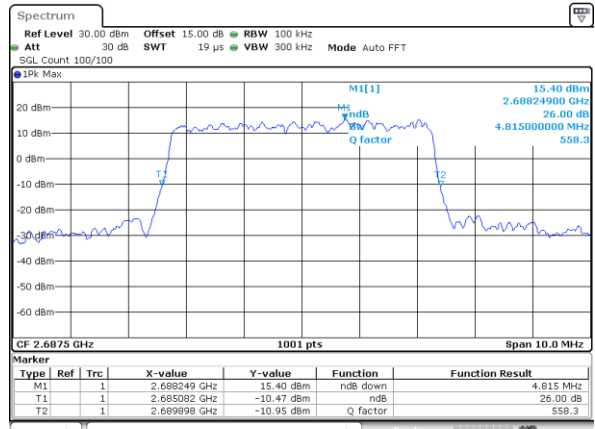
Date: 15_JAN_2020 02:21:22

Highest Channel / 5MHz / QPSK



Date: 15_JAN_2020 02:21:55

Highest Channel / 5MHz / 16QAM

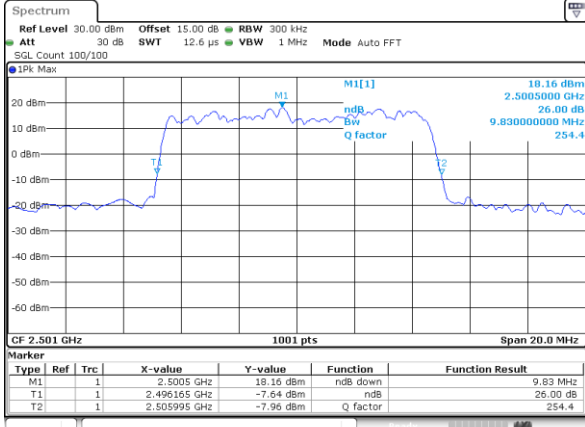


Date: 15_JAN_2020 02:22:06



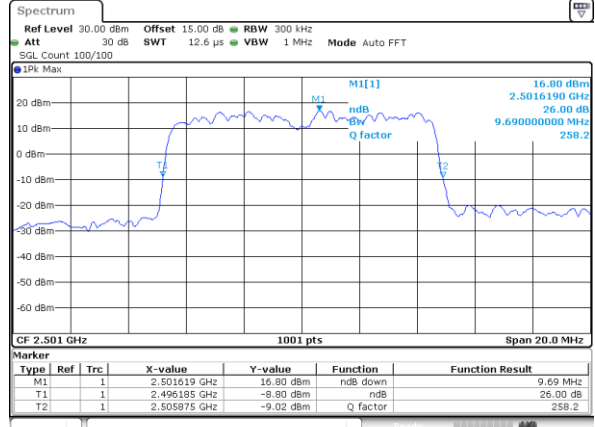
LTE Band 41

Lowest Channel / 10MHz / QPSK



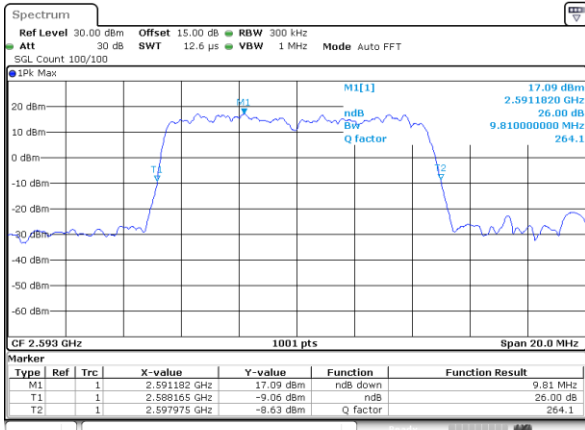
Date: 15_JAN.2020 02:22:40

Lowest Channel / 10MHz / 16QAM



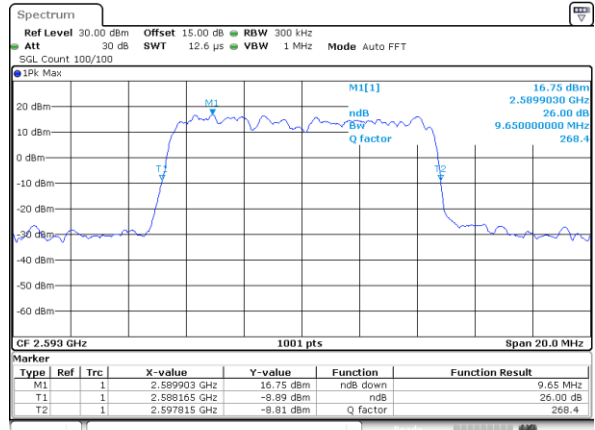
Date: 15_JAN.2020 02:22:51

Middle Channel / 10MHz / QPSK



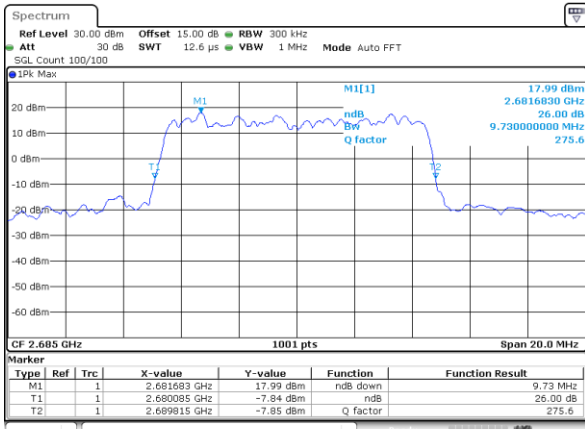
Date: 15_JAN.2020 02:23:24

Middle Channel / 10MHz / 16QAM



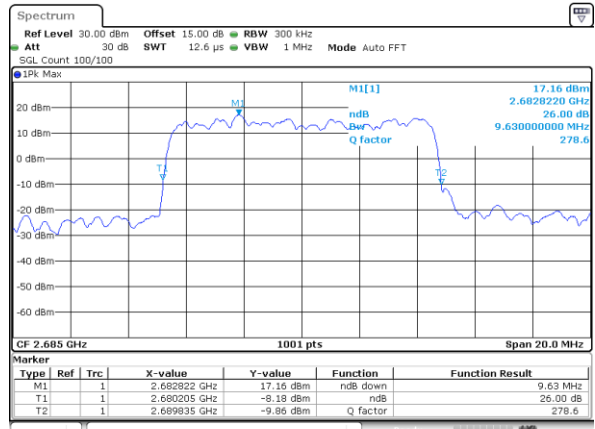
Date: 15_JAN.2020 02:23:35

Highest Channel / 10MHz / QPSK



Date: 15_JAN.2020 02:24:08

Highest Channel / 10MHz / 16QAM

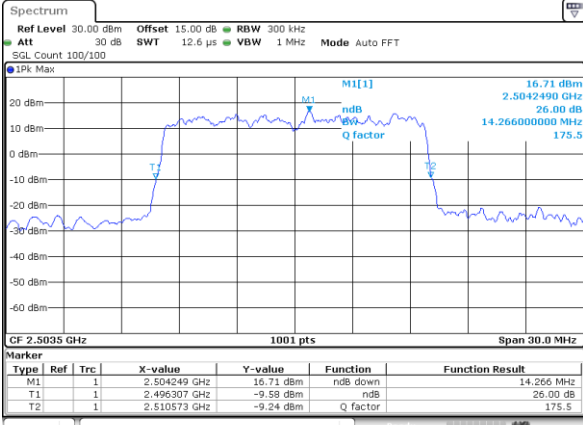


Date: 15_JAN.2020 02:24:19



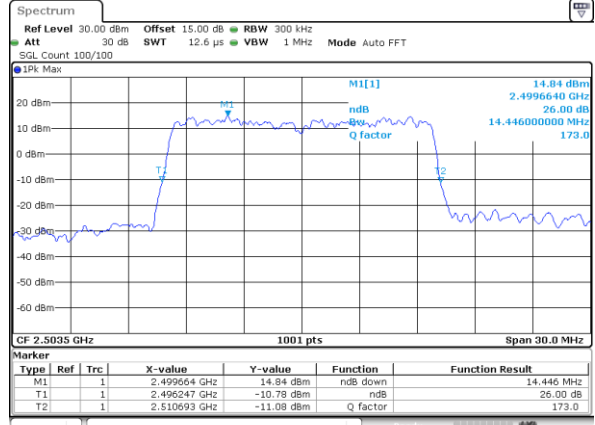
LTE Band 41

Lowest Channel / 15MHz / QPSK



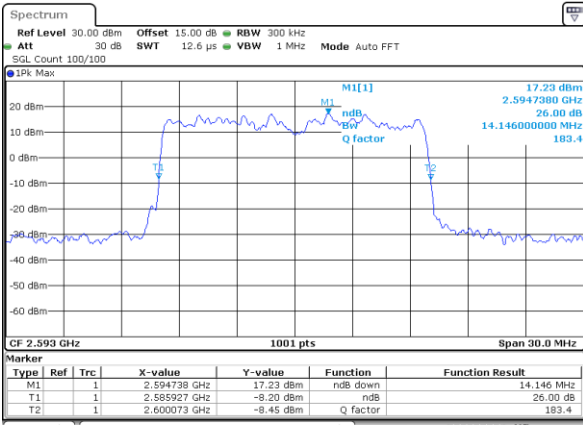
Date: 15_JAN.2020 02:24:52

Lowest Channel / 15MHz / 16QAM



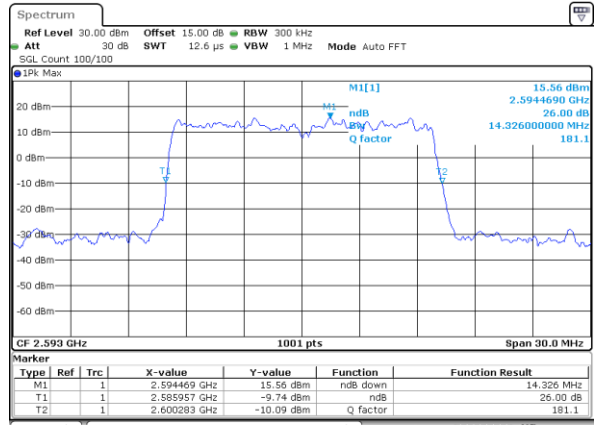
Date: 15_JAN.2020 02:25:03

Middle Channel / 15MHz / QPSK



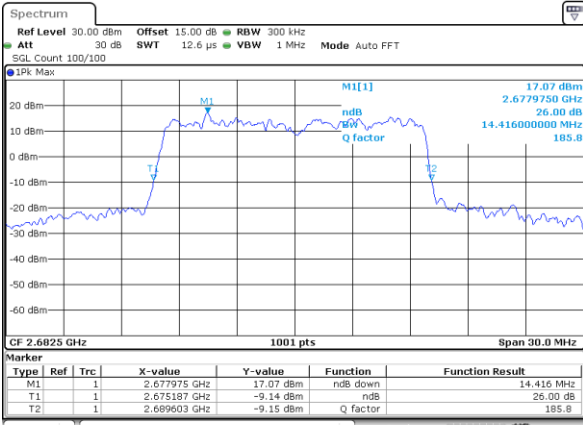
Date: 15_JAN.2020 02:25:06

Middle Channel / 15MHz / 16QAM



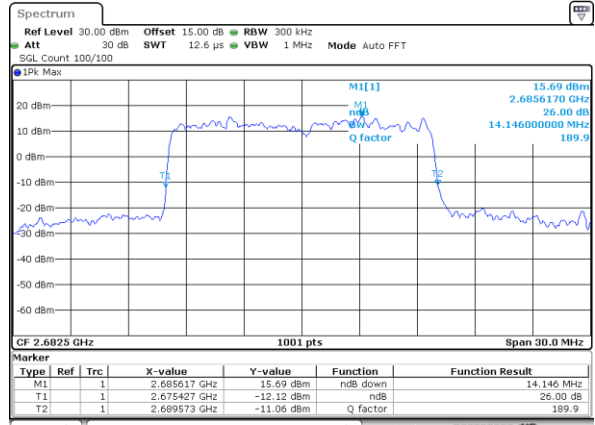
Date: 15_JAN.2020 02:25:47

Highest Channel / 15MHz / QPSK



Date: 15_JAN.2020 02:26:21

Highest Channel / 15MHz / 16QAM

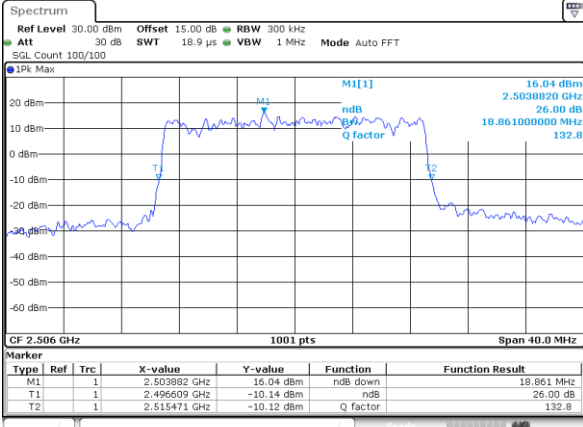


Date: 15_JAN.2020 02:26:32



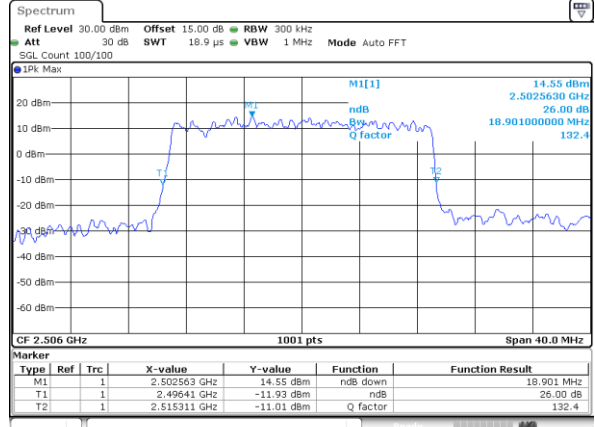
LTE Band 41

Lowest Channel / 20MHz / QPSK



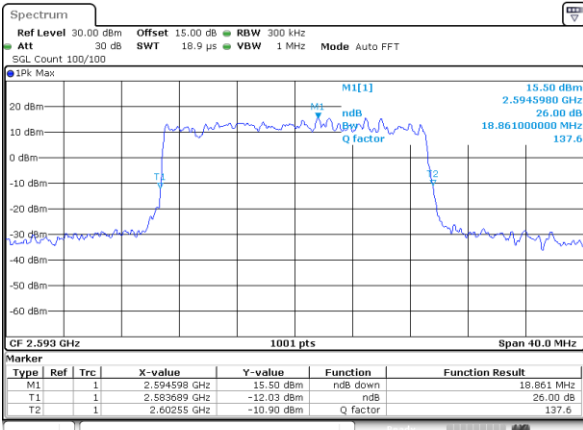
Date: 15_JAN.2020 02:27:06

Lowest Channel / 20MHz / 16QAM



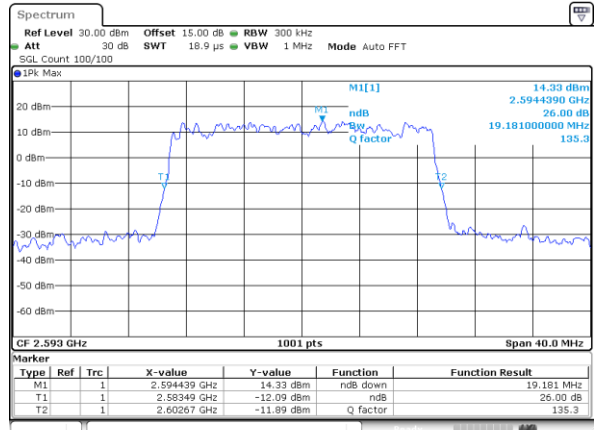
Date: 15_JAN.2020 02:27:17

Middle Channel / 20MHz / QPSK



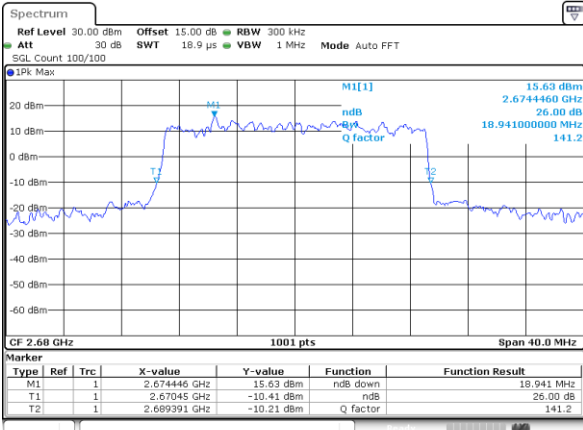
Date: 15_JAN.2020 02:27:50

Middle Channel / 20MHz / 16QAM



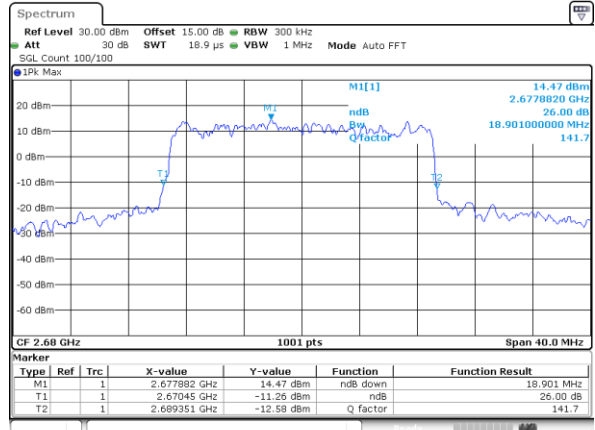
Date: 15_JAN.2020 02:28:01

Highest Channel / 20MHz / QPSK



Date: 15_JAN.2020 02:28:35

Highest Channel / 20MHz / 16QAM

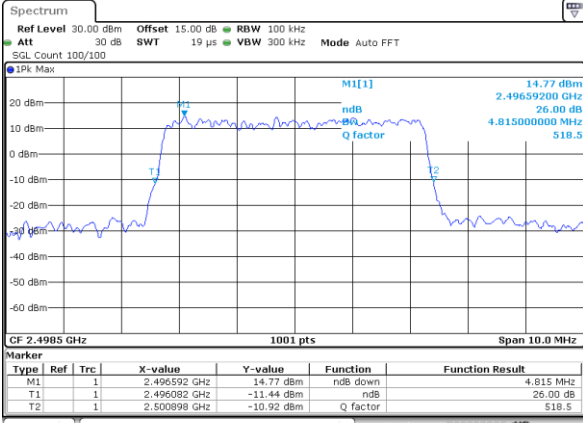


Date: 15_JAN.2020 02:28:46



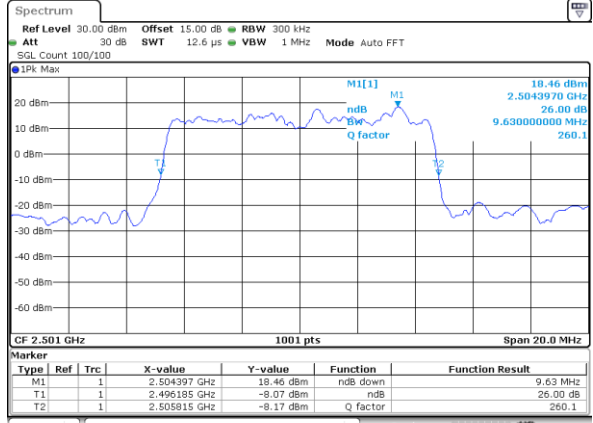
LTE Band 41

Lowest Channel / 5MHz / 64QAM



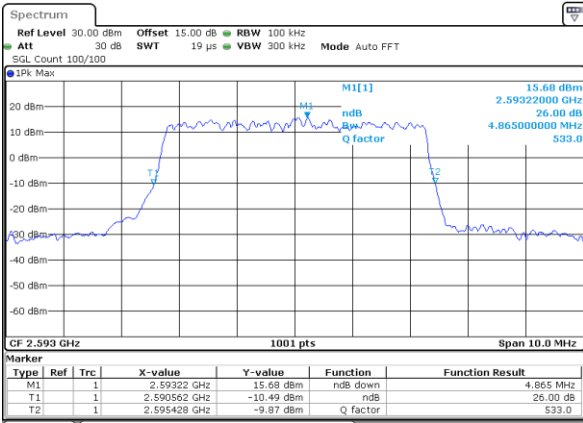
Date: 15_JAN.2020 02:29:08

Lowest Channel / 10MHz / 64QAM



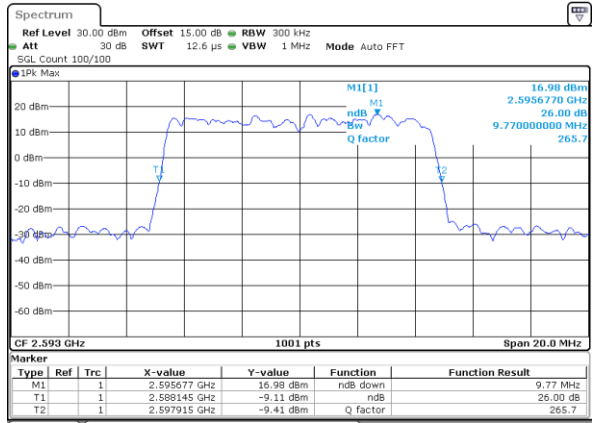
Date: 15_JAN.2020 02:13:14

Middle Channel / 5MHz / 64QAM



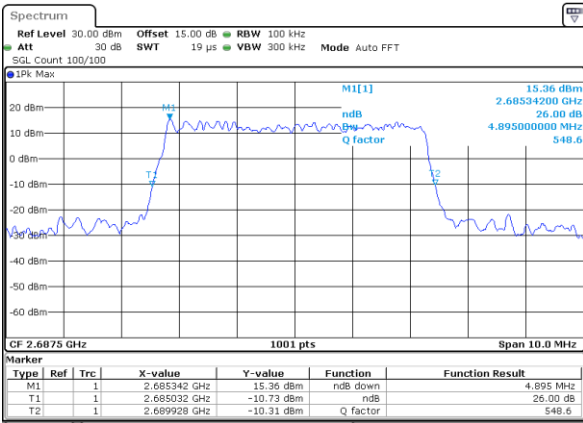
Date: 15_JAN.2020 02:29:30

Middle Channel / 10MHz / 64QAM



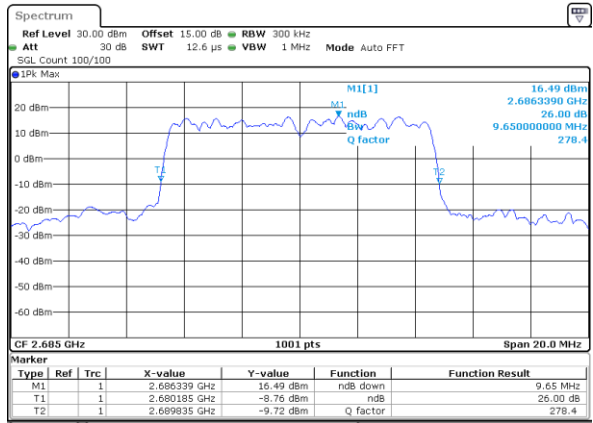
Date: 15_JAN.2020 02:13:36

Highest Channel / 5MHz / 64QAM



Date: 15_JAN.2020 02:29:52

Highest Channel / 10MHz / 64QAM



Date: 15_JAN.2020 02:13:58